Victoria Jane Allison

Environmental Research Division
Argonne National Laboratory
Building 203, E-133
9700 S. Cass Ave
Argonne, IL, 60439
phone: 630 252 3766
email: vallison@anl.gov

Education

Ph.D. 2001
University of Michigan, Ann Arbor, MI
Ecology, Evolution, and Organismal Biology
Dissertation: Direct and indirect effects of arbuscular mycorrhizal fungi on plant community composition.

M.Sc. 1995
University of Auckland, New Zealand
Department of Biology
Dissertation: Respiration, amino acid oxidation, and oxygen consumption by Phaeodactylum tricornutum.
First Class Honors

B.Sc. 1993
University of Auckland, New Zealand

Postdoctoral Experience

Jan 2002-present
Research Scientist, Environmental Research Division, Argonne National Laboratory.

Research Grants

Sigma Xi grant in aid of research, 2000, $450
Matthaei Botanical Gardens Research Grants, University of Michigan, 1998-1999, $1200
University of Michigan Research Grants, 1996-1999, $9074

Awards and Fellowships

2001	Rackham dissertation fellowship, University of Michigan
2001	Emma J. Cole fellowship in plant biology, University of Michigan
1997, 1999	Newcombe Fellowship, University of Michigan
1998	Sweetland writing fellowship, University of Michigan
1996	Prize in Marine Biology, University of Auckland

1994 Frances Briggs Prize in Botany, University of Auckland
1994 Senior prize in Biology, University of Auckland

Teaching Experience

1999
Leader, Graduate Student Instructor Training, 1 semester. Required course for all new graduate student instructors.
1996, 1997
Developed and wrote lab manuals Introduction to Plant Biology, Ecology Laboratory
1996
Sweetland writing fellow Developed and taught introductory composition class ?Writing on the Environment?
1994-1999
Graduate student instructor, University of Michigan, 10 terms. Introductory Biology, Ecology laboratory, Practical Botany, Writing for Biologists, Plant Developmental Biology, Introduction to Plant Biology

Other Professional Experience

1999-2000
High school outreach, Sweetland writing center, University of Michigan Reviewer: Ecology, National Science Foundation

Invited Seminars

Biology Department, University of Illinois at Chicago.

Publications

Allison, V.J. and Goldberg, D.E. 2002. Species-level versus community-level patterns of mycorrhizal dependence on phosphorus: an example of Simpson?s paradox. Functional Ecology 16:346-352.

Allison, V.J. 2002. Nutrients, arbuscular mycorrhizas and competition interact to influence seed production and germination success in Achillea millefolium. Functional Ecology 16:742-749.

Rajaniemi, T.K., Allison, V.K. and Goldberg, D.E. 2003. Root competition can cause a decline in diversity with increased productivity. Journal of Ecology 91:407-416.

Allison, V.J. and Miller, R.M. Using fatty acids to quantify arbuscular mycorrhizal fungi. In: Podila G.K. and Varma, A.K. (eds) Mycorrhizae: Basic Research to Biotechnology, pp 141-161. In Press, Springer Verlag (book chapter).

Allison, V.J. and Miller, R.M. Sample size and grinding affect fatty acid extraction efficiency and relative abundances in soil. Revisions submitted, Soil Science Society of America Journal.

Allison, V.J., Rajaniemi, T.K. and Goldberg, D.E. Quantification of direct and indirect effects of

fungi on an old-field plant community: an experimental null community approach. Submitted, Journal of Ecology.

Allison, V.J., Zak, D.R. and Rajaniemi, T.K. Impact of fertilizer and the fungicide Benomyl on plant and soil microbial community biomass and composition. Submitted, Soil Science Society of America Journal.

Miller, R.M., Allison, V.J., Matamala, R., Jastrow, J.D. and Zak, D.R. Soil microbial community composition in a tallgrass prairie chronosequence. Submitted, Ecological Applications.

Presentations And Abstracts

Allison, V.J., Miller, R.M., Jastrow, J.D. and Matamala. R.M. 2003.
Characterization of environmental and edaphic factors affecting soil microbial communities using a tallgrass prairie restoration chronosequence. Soil Ecology Society biannual meeting, Palm Spring, CA.

Allison, V.J. and Rajaniemi, T.K. 2000.
Mycorrhizal fungi have both direct and indirect effects on plant community composition. Ecological Society of America 85th Annual Meeting, Snowbird, UT.

Rajaniemi, T.K. and Allison, V.J. 2000.
Effects of aboveground and belowground competition on diversity along a productivity gradient. Ecological Society of America 85th Annual Meeting, Snowbird, UT.